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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,556	12/12/2005	Manlio Gallotti	2002DE442	4698
25255 CLARIANT C	7590 06/27/2007 ORPORATION	EXAMINER		
INTELLECTU	AL PROPERTY DEPA	NWAONICHA, CHUKWUMA O		
4000 MONRO CHARLOTTE,			ART UNIT	PAPER NUMBER
	•		1621	
			MAIL DATE	DELIVERY MODE
			06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary			Application No.	Applicant(s)	Applicant(s)			
			10/537,556	GALLOTTI ET AL	GALLOTTI ET AL.			
			Examiner	Art Unit				
			Chukwuma O. Nwaonicha	1621				
Period fo	The MAILING DATE of this communic r Reply	ation appe	ars on the cover sheet wi	th the correspondence a	ddress			
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA Isions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communi- period for reply is specified above, the maximum statu- tre to reply within the set or extended period for reply wi- eply received by the Office later than three months after an adjustment. See 37 CFR 1.704(b).	ILING DATES 1.136 inication. Itory period will ill, by statute, c	TE OF THIS COMMUNIC (a). In no event, however, may a re apply and will expire SIX (6) MON ause the application to become AB.	CATION. eply be timely filed THS from the mailing date of this of ANDONED (35 U.S.C. § 133).	,			
Status								
1)⊠	Responsive to communication(s) filed	on 26 Ma	rch 2007					
• -	This action is FINAL . 2b)⊠ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠ Claim(s) <u>1-6 and 8-15</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠)⊠ Claim(s) <u>1-6 and 8-15</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction	on and/or	election requirement.					
Applicati	on Papers							
9) 🗌 🤈	The specification is objected to by the	Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internation	al Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.								
A44								
Attachment	t(s) e of References Cited (PTO-892)		4) T Intentious S	ummary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	nformal Patent Application						

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DETAILED ACTION

Current Status

1. This action is responsive to Applicants' amendment of 26 March 2007.

- 2. Receipt and entry of Applicants' amendment is acknowledged.
- 3. Claims 1-6 and 8-15 are under active consideration in the instant application.
- 4. The Objection of claims 8-15 is withdrawn in favor of a new rejection.

The rejection of claims 1-6 under 35 U.S.C. 103 as being unpatentable over Smith et al., {US 5,414,124} for the reasons set forth in the previous Office Action of 01/12/07 is maintained. Applicants' amendments filed 26 March 2007 have been fully considered but they are not persuasive because applicants claimed composition still reads on the prior art of Smith et al. when the component in the presently claimed composition reads a quaternary ammonium composition consisting essentially of a) a cationic compound, b) less than 20% by weight of water based on said composition and c) a non-ionic solvent selected from the group consisting of an alcohol or an ethoxylated alcohol and mixtures thereof. Smith et al. teach a quaternary ammonium compound solution comprising from about 50% to about 80% of a quaternary ammonium compound and from about 5.0% to about 50% alkylene glycol with the remainder being water. See the claims in US 5,414,124. The different between the prior art reference and the presently claimed invention do not constitute a patentable distinction because Smith et al. teach the elements of the claimed invention with sufficient guidance, particularity, and with a reasonable expectation of success, that the invention would be prima facie obvious to one of ordinary skill in the art.

New Rejections

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 8 provide for the process of making quaternary ammonium composition, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a process without any active, positive steps delimiting how this use is actually practiced.

Claim 8 is rejected under 35 U.S.C. 101 because the claimed recitation of a method of making quaternary ammonium composition, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having

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ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 8-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gunter, {US 4,675,180}

Applicants claim a process for making quaternary ammonium composition essentially of a cationic compound of general formula 1; wherein all the variables are as defined in the claims.

$$R_1 - R_2$$
 $R_1 - R_4 - R_4$
 R_3

formula 1

Determination of the scope and content of the prior art (M.P.E.P. §2141.01)

Gunter teaches quaternary ammonium compounds of the formula 2 in which R_1 is long-chain alkyl, R_2 and R_3 are each lower alkyl and X^- is an anion, are prepared by quaternizing amines of the formula R_1 R_2 R_3 N with ethylene oxide in the presence of inorganic acid. This gives the quaternary compounds in virtually quantitative yield. The compounds are particularly suitable for use in hair cosmetics.

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$$\begin{bmatrix} R_2 \\ I \\ R_1 - N - C_2 H_4 O H \\ I \\ R_3 \end{bmatrix} \oplus X \Theta$$

Formula 2

<u>Ascertainment of the difference between the prior art and the claims (M.P.E.P..</u> §2141.02)

Applicants process for making quaternary ammonium compounds differs from that of Gunter process in that applicants claim a process that employs wherein R₁ and R₂ are C₁-C₂₂ alkyl while Gunter employed a process wherein R₁ and R₂ are C₁-C₄ alkyl. Finding of prima facie obviousness--rational and motivation (M.P.E.P.. §2142-2143)

The instantly claimed process for making quaternary ammonium composition .

would have been suggested to one of ordinary skill because one of ordinary skill wishing to obtain quaternary ammonium composition is taught to employ the process of Gunter.

One of ordinary skill in the art would have a reasonable expectation of success in practicing the instant invention by varying the process conditions and the substituents on the nitrogen to arrive at the instantly claimed process for quaternary ammonium composition. Said person would have been motivated to practice the teaching of the reference cited because it demonstrate that quaternary ammonium composition have immense commercial applications. The Examiner notes that replacing one material in a composition with another material is a well-known technique in a chemical formulation

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to optimize the efficiency of the system and does not constitute a patentable distinction. Additionally, merely modifying the process conditions such as temperature and concentration is not a patentable modification absent a showing of criticality. <u>In re Aller,</u> 220 F.2d 454, 105 U. S. P. Q. 233 (C. C. P. A. 1955). Therefore, the instantly claimed invention would therefore have been obvious to one of ordinary skill in the art.

No Claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chukwuma O. Nwaonicha whose telephone number is 571-272-2908. The examiner can normally be reached on Monday thru Friday, 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chukwuma O. Nwaonicha, Ph.D.

Patent Examiner Art Unit: 1621

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Johann R. Richter, Ph.D., Esq. Supervisory Patent Examiner, Technology Center 1600